FURNACES

TABLE 18

	Gas Checker	Air Checker
A checkerwork height has been assumed, in order to illustrate the effect of a high checkerwork. On this basis: The number of passes required will be determined	681	
n for air =8361 -=-7. 00=		1195
Any desired length or width of chamber that will contain the number of passes may be selected. When a square pass is used, it is necessary that the chamber dimensions should be multiples of the pass dimension, plus one wall.	7 m 663	25 14 ft
For the width of the chambers, *n* may be assumed as some number which will give a number of passes slightly in excess of that computed above. For the case in hand, let *n*	720	
40X 30 for air ==		1200
The width of the chambers required will be :	3 m 483	
For air: 190X30+63 =		5m 763
The area occupied by the checkerwork will be: For gas: 7.663X3.483=	11.425ft -	18.90ft
For air: 7.663X5.763=		44 m^2 16
The corrected checkerwork volume will be: For gas: 26.69X7 00=	287. 4 sq -	475. 4 sq ft
For air: 44 16X7 00=		309 m^3 12
	6602 cu ft	10,916 cu ft